

METHODS AND SYSTEMS FOR BATTERY CHARGING CONTROL
BASED ON CMOS TECHNOLOGY

ABSTRACT OF THE DISCLOSURE

A method and system, compatible with low-voltage CMOS technology, for controlling the charging of a battery. The method includes monitoring a battery voltage with respect to a threshold voltage. The method further includes coupling a charging control logic supply to ground, generating an active low first control signal, inverting the active low first control signal, and charging the battery at a first rate when the battery voltage is below the threshold voltage. The method further includes coupling the charging control logic supply to the battery voltage, generating an active high second control signal, and charging the battery at a second rate when the battery voltage exceeds the threshold voltage. The first charging rate is slower than the second charging rate. The method further includes supplying battery power to a charger line when the battery voltage exceeds the charger voltage, and suppressing a leakage current.

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